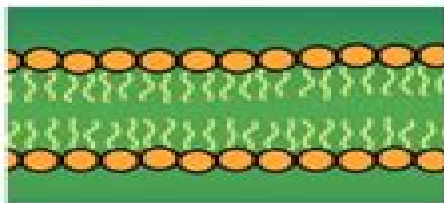


Amoeba Sisters Video Recap: Cell Transport

The cell membrane is important for maintaining **homeostasis**, because it controls what enters and leaves a cell.



1. Sketch the **phospholipid bilayer** of a cell membrane below and label the **polar heads** and **nonpolar tails**.



← Polar heads

← Nonpolar tails

2. What is simple diffusion?

"Diffusion that doesn't take any energy to force these molecules in or out so this is known as passive transport. Simple diffusion moves with the flow."

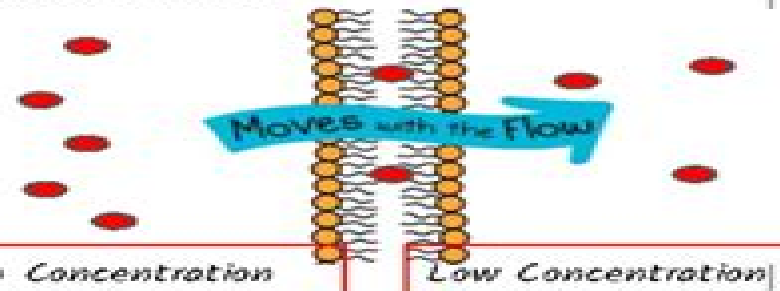
Meaning, it moves with the concentration gradient."

3. Circle the statements below that would be TRUE about **simple diffusion**. HINT: There is more than one!

- ☒ A) It is a form of passive transport.
- ☒ B) Molecules travel with the concentration gradient.
- ☐ C) It is how glucose travels across the cell membrane.
- ☐ D) It is how oxygen and carbon dioxide travel across the membrane.
- ☐ E) This transport is typical for large molecules.

Moving with the Concentration Gradient

4. "Moving with the flow" (i.e. going with the concentration gradient) is the direction of flow in passive transport. Show this in the diagram on right by **drawing in 10 total circles (to represent molecules)**. You must decide a certain amount to place on the left vs. the right side after viewing the arrow indicating the direction of movement. **Label the high concentration side and low concentration side.**



Endocytosis and Exocytosis

5. Are **endocytosis** and **exocytosis** forms of passive or active transport? *Active Transport*

6. Give a scenario where a cell may need to perform a form of endocytosis. *"Amoebas for example rely on endocytosis. Pseudopods stretch out around what they want to engulf and then it gets pulled into a vacuole."*

7. Give a scenario where a cell may need to perform a form of exocytosis. *"Cell walls are different from cell membranes- all cells have membranes but not all cells have a wall. But if you are going to make a cell wall, you're going to need to get those carbohydrates that are produced in the plant of the cell out of the cell to make the wall."*



The Answers To Transport In Cell Pogil

Halvor N. Christensen



The Answers To Transport In Cell Pogil:

Intracellular Transport Katherine Brehme Warren, 2012-12-02 *Intracellular Transport* Volume 5 brings together a seemingly disparate group of scientists who offer their perspectives on the processes of and mechanisms underlying intracellular transport. Organized into 14 chapters, this volume begins with a review of some of the viewpoints about membrane structure and the unit membrane concept, including the so-called pauci-molecular theory of cell membrane structure advanced by Danielli and Davson. The next chapters focus on intracellular potentials, the localization of adenine nucleoside phosphatase activity, pinocytosis in amoeba, the brush border of cells, and the transport of gamma-aminobutyric acid. The reader is also introduced to pattern and rhythm, diffusion and reaction coupling, compartmental analysis, and residence time distributions and parametric pumping. The remaining chapters explore intracellular transport fluxes, theoretical aspects of permeability, transport rotating helices and contractile mechanisms, and the movements of cell membranes. This book is a valuable source of information for cellular biologists concerned with nature's evolved processing plants and engineers involved in the analysis and design of chemical processing plants. **Transport and Accumulation in Biological Systems** Eric James Harris, 1972 **A Model for Passive Transport Across the Cell Membrane of Excitable Tissue** Jack Fromkin, 1974 **Biological Transport** Halvor N. Christensen, 1962 *Hormone Transport* **Intracellular transport** Katherine Brehme Warren, 1969 **Functional Dynamics of the Cell** Edward Bresnick, Arnold Schwartz, 1968 **Transport Phenomena in Biological Systems** George A. Truskey, Fan Yuan, David F. Katz, 2004. Presenting engineering fundamentals and biological applications in a unified way, this book provides learners with the skills necessary to develop and critically analyze models of biological transport and reaction processes. Midwest

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